

Message Text

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PAGE 01 STATE 191390
ORIGIN EB-08

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TO AMEMBASSY PARIS

C O N F I D E N T I A L STATE 191390

USOECN, EXCON

E.O. 11652: GDS

TAGS: ESTC, COCOM, US, UR

SUBJECT: US EXPORT OF SEISMIC DATA PROCESSING SYSTEMS TO
USSR

REF: A) COCOM DOC (78) 456 B) 78 PARIS 23297

IN RESPONSE TO GERMAN QUESTIONS:

1. THE TRANSMISSION RATE CAPACITY OF AN RDS-500 CPU WITH
THE DUAL PORTED MEMORY IS 32 MEGA BITS PER SECOND. THE
COMMAND IIB SEISMIC DATA PROCESSING SYSTEM USES THE RDS-500
BUT USES ONLY ONE PORT OF THE CPU. THE EFFECTIVE TRANS-
MISSION RATE OF THE SYSTEM IS 16 MEGA BITS PER SECOND
RATHER THAN 32 MEGA BITS. THE APPLICATION IS IN ERROR TO
THIS EXTENT.

THE GEOSOURCE COMMAND IIB SEISMIC DATA PROCESSING
SYSTEM IS DESIGNED TO ACCOMMODATE ALL TYPES OF RECORDED
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PAGE 02 STATE 191390

GEOPHYSICAL DATA IN PETROLEUM SEISMIC EXPLORATION. THE
MOST DEMANDING IS VIBROSEIS RECORDED DATA WHICH REQUIRES
APPROXIMATELY EIGHTEEN (18) HOURS OF COMMAND IIB PROCESSING
TIME PER DAY TO SUPPORT ONE VIBROSEIS CREW. IN THE YAKUTSK
AREA THERE ARE TWO VIBROSEIS CREWS PLUS TWO DYNAMITE CREWS
THAT WE KNOW OF AND WE WERE TOLD BY DR. GRACHEV OF THE

MINISTRY OF GEOLOGY THAT THEY HAVE TEN (10) OR TWELVE (12) OTHER SEISMIC CREWS IN THE YAKUTSK AREA AND ABOUT 200 IN EASTERN SIBERIA. THE ACTIVITY NEAR YAKUTSK WILL BE INCREASING.

2. THE PHOTODOT PLOTTING SYSTEM ALSO USES ONLY ONE MEMORY PORT OF THE RDS-500. THE EFFECTIVE DATA TRANSMISSION RATE OF THE SYSTEM IS 16 MEGA BITS PER SECOND.

3. THE COMPUTER HARDWARE IN THE 1703 WAS RATHEON'S FIRST ATTEMPT TO PROVIDE SUCH A SYSTEM IN 1968 FOR SEISMIC DATA PROCESSING USE. MANY IMPROVEMENTS WERE MADE AND THE RDS-500 BECAME AVAILABLE IN 1973-74. RELIABILITY AND REDUCED MAINTENANCE CAUSED GEOSOURCE TO STANDARDIZE THE RDS-500 FOR THE COMMAND IIB SYSTEMS.

THE 1703 SYSTEMS TO BE UPGRADED TO COMMAND IIB SYSTEMS ARE NOW NINE YEARS OLD AND REQUIRE MUCH MAINTENANCE. THE SOFTWARE FURNISHED BY GEOSPACE CORP. IN 1969-70 WAS VERY BASIC AND RATHER INEFFICIENT. THE MINISTRY OF GEOLOGY HAS PREVIOUSLY PURCHASED THE COMMAND IIB SOFTWARE AND UPGRADING THE 1703 SYSTEMS WILL PERMIT THE MORE EFFICIENT USE OF THAT FACILITY FOR PROCESSING SEISMIC DATA. THE 1703 SYSTEM WITH THAT SOFTWARE HAS NOT BEEN ACCEPTABLE IN THE GEOPHYSICAL INDUSTRY SINCE 1972.

4. THE EQUIPMENT IS TO BE USED FOR PETROLEUM GEOPHYSICAL
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PAGE 03 STATE 191390

EXPORTATION BY COMPUTER PROCESSING OF SEISMIC FIELD DATA.
THE PROJECT IS THE YAKUTSK EASTERN SIBERIAN GAS PROJECT.
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Message Attributes

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Disposition Approved on Date:
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